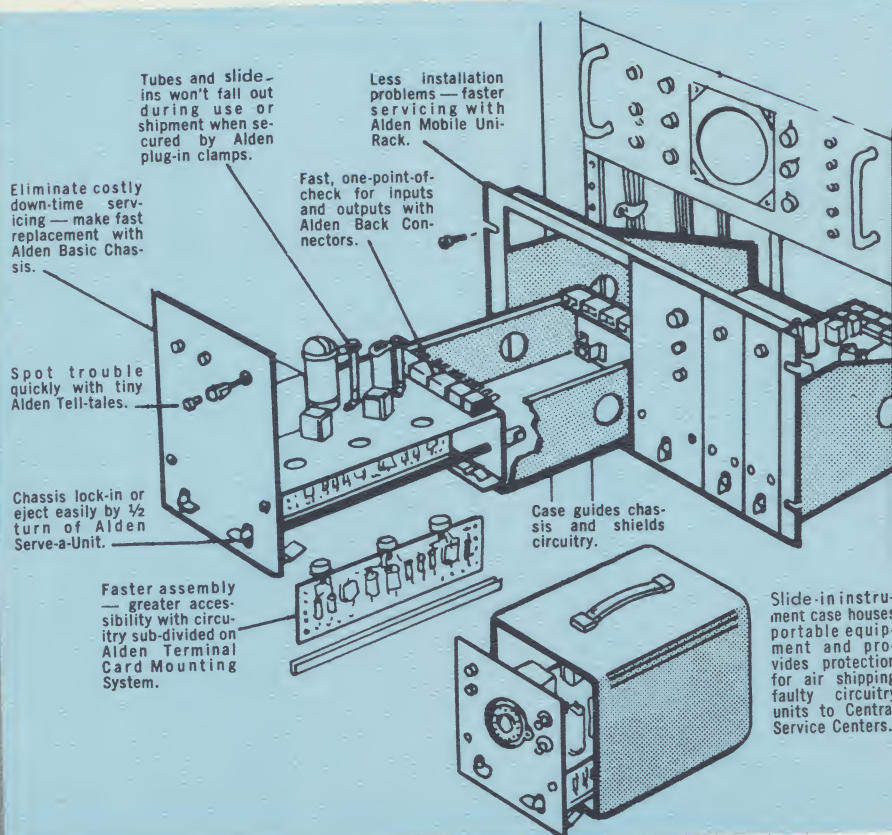


You can save hours on standard mechanical routine — spend more time on creative designs with Alden Basic Building Blocks.



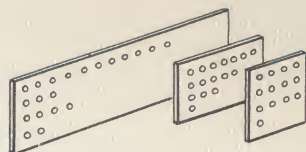
Prices listed are for small quantities. Production prices considerably less.

QUICK ORDER GUIDE

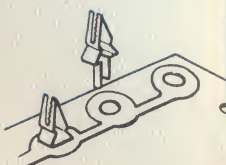
to some of the most frequently ordered items for Slide-in Unit Construction

The ALDEN terminal card mounting system

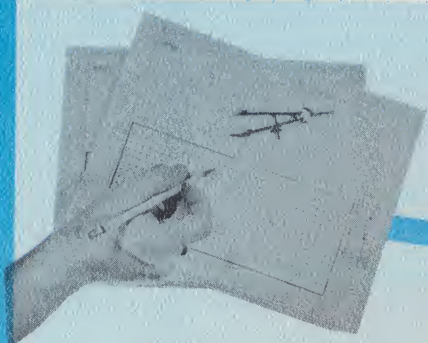
**Here's
how simple
it is**



1. Pre-punched Alden Terminal Mounting Cards give greater flexibility for laying out and wiring an infinite number of circuit variations.



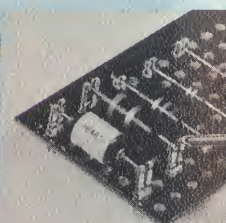
2. Alden Terminals stake securely on the Jumper Strips — eliminate unnecessary wiring of common circuits.



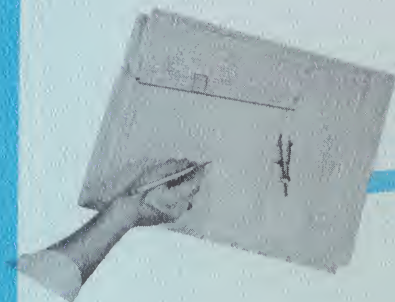
1. Divide your schematics into circuit blocks of associated functions — lay them out graphically on Alden full scale Terminal Card planning sheets.



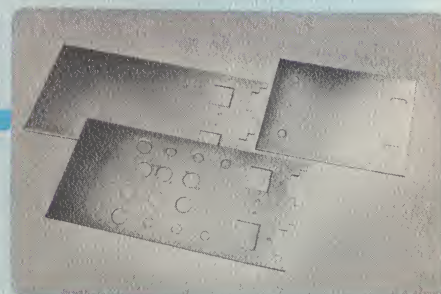
2. Using completed planning sheets as masters — push in Alden Ratchet Terminals and Tube Sockets at designated points in pre-punched cards — swage in and eyelet securely in place.



3. Simply snap components into jaws of terminals—they're held securely—ready for soldering on true production basis. Terminals dissipate heat quickly—will not damage components.



1. On Alden full scale chassis planning sheets indicate various hole centers and sizes. While circuit sub-assemblies are being produced separately, Alden planning sheets are used as templates for accurate processing of —



2. Alden Basic Chassis and front panels which are stored in the flat pre-shaped—ready for punching to your specifications.

ALDEN

PRODUCTS COMPANY, 3167 North Main Street, Brockton, Mass.

USE THIS HANDY ORDER BLANK . . . AND SAVE! Order one of the popular Alden Kits today. This order blank entitles you to save 5% for Kits 37, 38, 39 (Kit #42 has already been reduced in price as a special introductory offer.) Deduct an additional 3% if you send a check

DATE _____

NAME _____ TITLE _____

COMPANY _____

SHIPPING ADDRESS _____

BILLING ADDRESS _____

P. O. # _____ PAYMENT ENCLOSED. _____

PKG. MARKING	
--------------	--

QUANTITY _____

SHIP VIA _____

SCHEDULE

QUANTITY	KIT OR PART #	PRICE
----------	---------------	-------

This image shows a single sheet of white paper with horizontal blue or grey ruling lines, typical of notebook paper. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

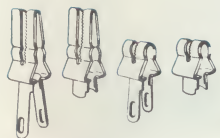
SIGNATURE _____

Orders from open account customers, with credit established by us, will be shipped open account if desired.

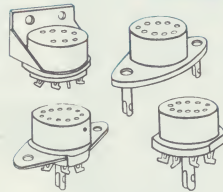
*/moves you from
schematic
to circuit FAST!*

the ALDEN basic chassis system

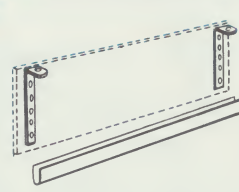
organizes your circuitry by function



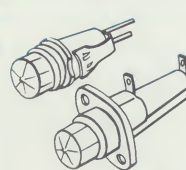
3. Alden Ratchet Terminals hold component lead securely for soldering — no twisting around a post — puts soldering on a production basis.



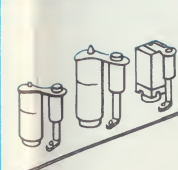
4. Alden Card Mounting Tube Sockets integrate tubes and circuitry into a single compact plane that snaps in or bracket mounts.



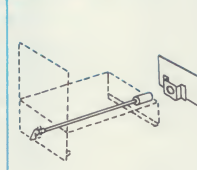
5. Alden Terminal Card Tracks hold card securely in chassis. It can be easily snapped in or out. Brackets permit secure mounting of turrets or resistor boards.



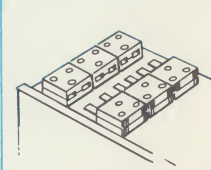
6. The tiny Alden "Tell-Tales" give brilliant indication to monitor unit operation — permit front of panel servicing.



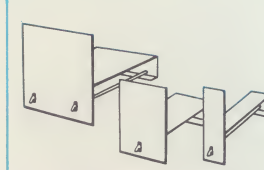
7. Alden Tube Clamps are adjustable. Provide more protection for tubes and components in transit or in use.



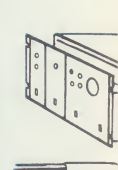
8. Alden "Serve-A-Unit" Lock guides, locks in, or ejects chassis with a simple half turn of handle.



9. Alden Back Connectors provide a single point of check on plug-in units — bring out leads for instant identification.

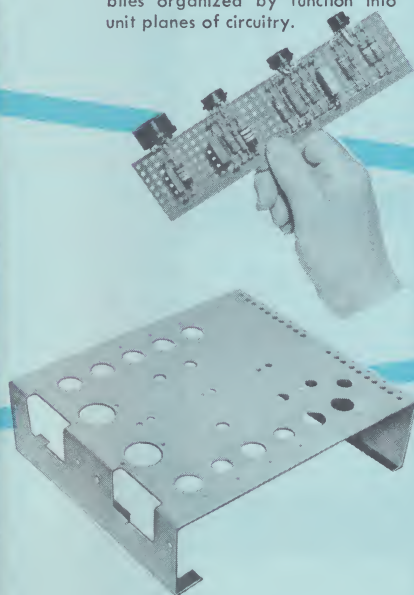


10. Alden Basic Chassis are modular — available in four widths and several heights — as slide-in, quick service units.

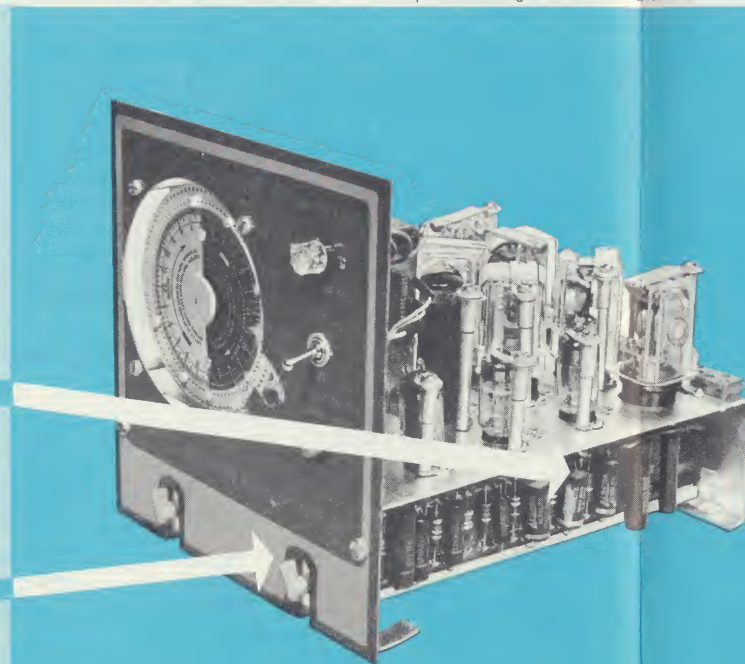


11. Various Alden equipment shipped to order.

4. Alden Terminal Cards utilize simplified assembly techniques — bring work out into the open to make neat component sub-assemblies organized by function into unit planes of circuitry.



3. Punched and shaped chassis are ready for your circuitry. Completed Terminal Card mounted circuitry can be snapped in or bracket mounted. Additional components mount to top of chassis and front panel to complete this circuit function.



THE ALDEN BASIC CHASSIS IS THE KEY TO PLUG-IN UNIT CONSTRUCTION . . . A simple half turn of the Serve-A-Unit Lock guides, locks in or ejects this modular plug-in unit for easy in service checks, on the spot repairs, or 30 second replacement by non-technical personnel.

The open-sided Alden Chassis provides for fast, easy accessibility of circuitry. Unique Alden Back Connectors bring all in-out leads to a single, graphically labeled point of check.

Key your equipment design to the Alden Basic Chassis — follow through with a complete system of building blocks to get reliability and service.



The Alden Uni-Rack provides the ideal way to organize sub-assemblies.

By fully utilizing all the features of plug-in units, more compact, convenient and serviceable units.

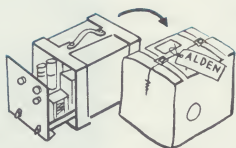
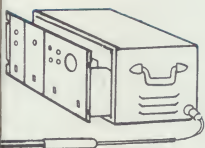
The Uni-Rack is available in two basic heights — two models — easily accessible from front or rear.

Hollow side channels provide ample room for natural chimney effect for rapid heat dissipation.

Alden Basic Chassis mount in any combination to become true "building blocks" in the "picture frame" rack adaptor. This functionally sub-divided rack module can be included in line with other rack mounted units making up electronic systems.

Mounts in any standard relay rack or specifically in Alden UniRacks for greater flexibility and servicing ease.

function into plug-in "building blocks"!



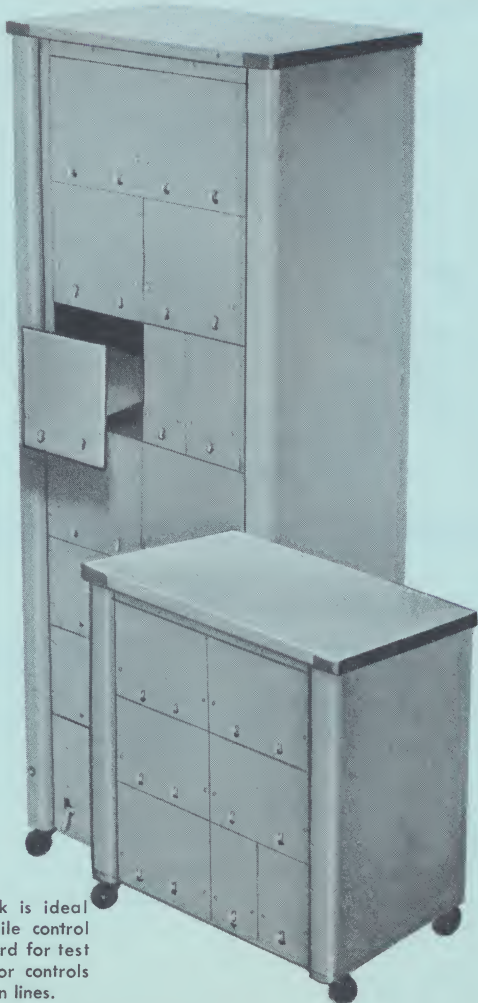
**greater
serviceability from
every angle!**

11. Various size chassis plug securely into carrying cases as portable equipment, or for protection of replacement units being shipped to or from service centers.

deal way to package your "building block"

of plug-in unit construction, it becomes a serviceable unit than conventional assemblies. Compact heights — in either mobile or stationary front or rear.

ample room for cabling and provide a good heat dissipation.



The low model UniRack is ideal for on-the-spot or mobile control centers. Can be standard for test set-ups, and labs, or for controls on automated production lines.

Design your electronic equipment to these standards . . .

1. Equipment shipped intact — all components mounted securely in place with unique Alden Fastening Devices.

2. Easily portable — modular construction permits separation into easily handled sections — can be installed anywhere.

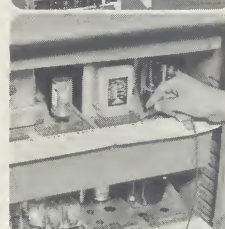
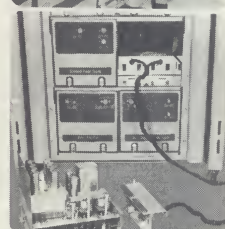
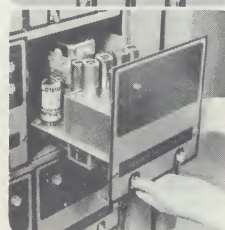
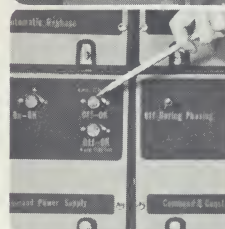
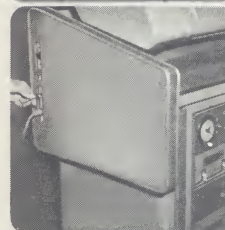
3. Immediate operation — quick, readily accessible connections with all controls "up front".

4. Elements sub-divided by function into modular units — tiny Alden tell-tales spot trouble instantly — isolate it to a specific unit.

5. Quick replacement of malfunctioning unit — half turn of Alden Serve-A-Unit Cam Lock reduces down-time to 30 seconds with plug-in replacement spare.

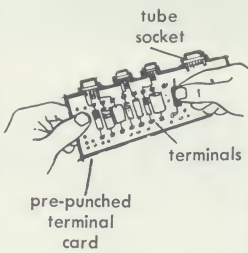
6. In-service checks — Alden Adaptor Cable brings chassis out into the open while in operation.

7. Alden Back Connectors bring all in-out leads to one point of check — make possible color-coded, graphically illustrated circuit legends.



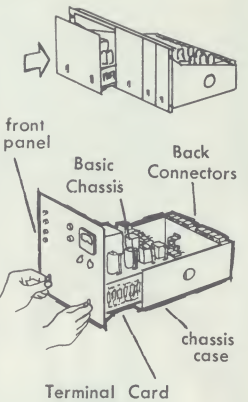
THE ALDEN TERMINAL CARD MOUNTING SYSTEM

Mounting circuitry doesn't have to be slow and tedious — not when you use Alden basic building blocks. The Alden Terminal Card Mounting System provides everything you need to make planning and layout: scaled layout sheets, pre-punched terminal cards, card mounting tube sockets, brackets and tools . . . all available from stock. Pages 3 4 5



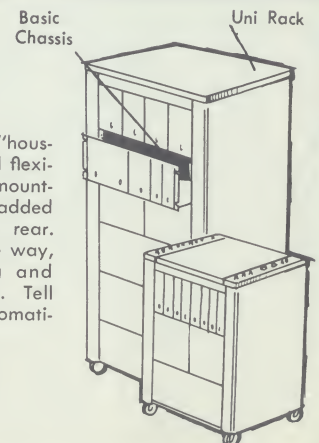
THE ALDEN BASIC CHASSIS SYSTEM

Packaging circuitry is (almost) like child's play with Alden basic building blocks. After the circuitry has been organized function by function in complete sub-assemblies and is ready for "packaging", Alden provides a variety of basic plug-in chassis in which the circuitry is neatly deployed, function by function, in space-saving vertical planes. These chassis plug-in, lock, eject with a half-turn of the wrist. Result: maximum simplicity and serviceability, with less maintenance. Page 6

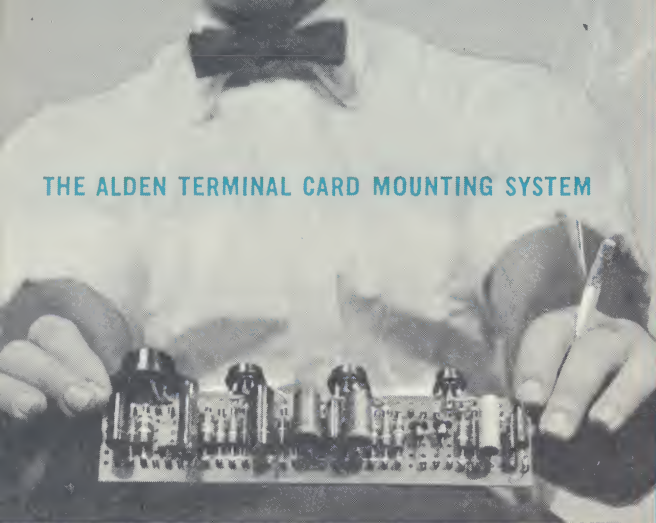


ALDEN UNI-RACKS AND COMPONENTS

These are Alden's basic "housing" units — offering real flexibility and convenience in mounting and wiring, as well as added serviceability — front or rear. Pages 7-8. All along the way, Alden makes servicing and trouble shooting simple. Tell tales to spot troubles automatically. Pages 9-10



THE ALDEN TERMINAL CARD MOUNTING SYSTEM

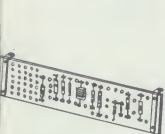


Here is everything you need to make planning and layout quick and effortless: terminals, pre-punched terminal cards, card mounting tube sockets, brackets, tools and layout sheets — all available from stock.

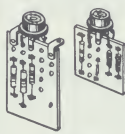
Alden Terminal Card Mounting Components give greater flexibility for laying out and wiring an infinite number of circuit variations — help you move quickly from schematic to circuit.

The Alden Terminal Card Mounting System adds up to unit planes of circuitry, organized function by function, as complete sub-assemblies ready for packaging — like the one our engineer friend is holding in the picture.

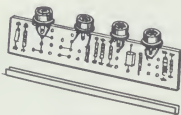
Here's what you can get quickly:



Resistor Boards



Turrets



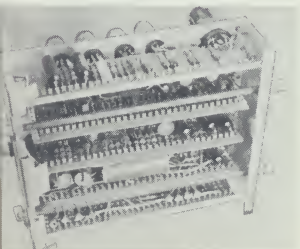
Vertical Plane Circuits



Plug-in Units

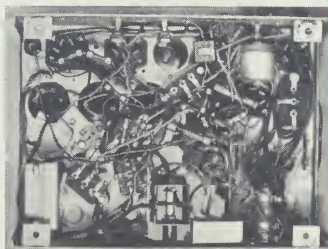
To make units like . . .

This



Alden Terminal Card Mounting System as used in Alden Basic Chassis . . . neat and accessible assembly—servicing dream.

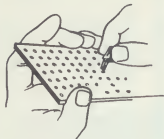
Not this



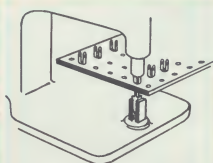
Conventional box chassis and wiring . . . Rat's nest assembly—servicing nightmare.



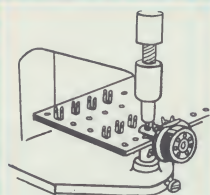
On scale layout sheet show location of components.



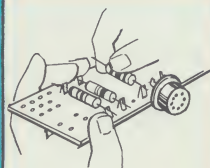
Select specified terminals and insert in correct holes.



Turn card over and place terminal jaws on anvil — stake firmly into place.



Eyelet tube sockets at specified points.

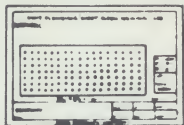


Snap components into jaws of terminals — solder all at once.

ALDEN TERMINAL CARD MOUNTING COMPONENTS

Alden Planning Sheets

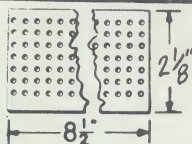
Use these reproducible full scale layout sheets to show terminal pattern, component location and schematic. Easy to use—saves time.



- #UPS-1A for $2\frac{1}{8}$ " x $8\frac{1}{2}$ " terminal cards
25 for 25c
- #UPS-1B for $3\frac{3}{8}$ " x $8\frac{1}{2}$ " terminal cards
25 for 25c

Term. Cards for Chassis Mount

XXXX natural phenolic $\frac{1}{16}$ " thick, $2\frac{1}{8}$ " wide with 7 rows high of .101" terminal holes on $\frac{1}{4}$ " grid.



- #650ATMS 36" long 1-5 \$1.83 ea.
5-25... \$1.65 ea. 25-100... \$1.46 ea.
- #650ATMS-1 $8\frac{1}{2}$ " long 1-10. \$5.0 ea.
10-25... \$4.45 ea. 25-100... \$4.40 ea.

Use 650ATMS-1 in Alden Basic Chassis mounting by track, brackets or piggy-back tube sockets.

Same cards bu: 12 rows of holes and $3\frac{3}{8}$ " wide.

- #650ATMSB 36" long 1-5. \$2.60 ea.
5-25... \$2.34 ea. 25-100... \$2.08 ea.
- #650ATMS-1B $8\frac{1}{2}$ " long 1-5... \$7.0
5-25... \$.63 ea. 25-100... \$.56 ea.

Same as above, but made of strong, fire-resistant glass epoxy.

- #650ATMS-G10 $2\frac{1}{8}$ " x 36"
1-4 \$4.34 ea.; 5-24 \$3.90 ea.; 25-99 \$3.75 ea.; 100-199 \$2.39 ea.
- #650ATMS-1G10 $2\frac{1}{8}$ " x $8\frac{1}{2}$ "
1-4 \$1.14 ea.; 5-24 \$1.03 ea.; 25-99 \$.91 ea.; 100-199 \$.63 ea.

- #650ATMS-BG10 $3\frac{3}{8}$ " x 36"
1-4 \$7.08 ea.; 5-24 \$6.37 ea.; 25-99 \$5.66 ea.; 100-199 \$3.90 ea.

- #650ATMS-1BG10 $3\frac{3}{8}$ " x $8\frac{1}{2}$ "
1-4 \$1.83 ea.; 5-24 \$1.65 ea.; 25-99 \$1.46 ea.; 100-199 \$1.01 ea.

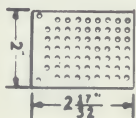
Same as above but copper clad (2 ozs.) one side, 7 rows of holes $2\frac{1}{8}$ " wide.

- #650ATMS-SPC 36" long 1-5. \$2.70 ea.
5-25... \$2.43 ea. 25-100... \$2.16 ea.
- #650ATMS-1SPC $8\frac{1}{2}$ " long 1-5... \$.73 ea.
5-25... \$.66 ea. 25-100... \$.58 ea.

All terminal cards available in any length up to 36". Special types available for quantity production. XXXP $\frac{1}{16}$ " natural phenolic .101" holes on $\frac{1}{4}$ " grid.

Terminal Cards for Slide-in Packages

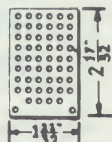
$2\frac{1}{2}$ " x $2\frac{1}{2}$ " for single card assembly for housing or open using lid.



- #650-20-1 less mounting brackets
1-24 \$.30 ea.
- #650-20-1A with mounting brackets
1-24 \$.46 ea.

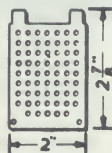
Terminal Cards for Slide-in Packages

$1\frac{1}{2}$ " x $2\frac{1}{2}$ " for double card assembly in housing or open using lid.



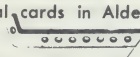
- #650-20-2 less mounting brackets ea. \$.26
#650-20-2A with mounting brackets ea. \$.47

$2\frac{1}{2}$ " x $2\frac{1}{8}$ " for single card assembly open construction with lid.



- #650-20-3 less mounting brackets ea. \$.29
#650-20-3A with mounting brackets ea. \$.50

Bracket for mounting terminal cards in Alden Basic Chassis or other housing.



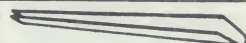
- #BR10 Pkg. of 36 for \$4.32

Bracket for mounting terminal cards in Alden Slide-in packages or other housing.



- #BR-5 Pkg. of 36 for \$1.80

Track for snap mounting terminal



cards in Alden 2, 4 and 8 inch Basic Chassis are provided with mounting clips. 5-25

- #11005-1-4 1-\$7.9 ea. 2-5 \$.71 ea. \$.63 ea.

Terminal cards may also be mounted to chassis using Alden Piggy-Back card mounting tube sockets.

Miniature Ratchet Terminals

Use Alden terminal cards or any $\frac{1}{16}$ " card with .101" hole. See terminal staking tool below. Terminals have serrated jaws—help grip leads. Electro-tinned brass for fast soldering.



- #651T 1000
#652T 1000
#653T 1000
#654T 1000

for \$8.00 for \$7.05 for \$10.25 for \$9.00

Diode terminal and for other components with fine leads.

- #652DT 1000 for \$7.05

Jumper Strips

Eliminates unnecessary wiring of common voltages. Snap off unneeded loops—stakes under terminals—for $\frac{1}{4}$ " grid. #650J .3 ft. \$.57



Crossover Connector

Simplify slide-in intercard, printed or etched circuitry connections. Tin plated phosphor bronze. Eyelets or screws to terminal cards on $\frac{1}{2}$ " centers. #CS461 25 for \$7.5



TERMINAL CARD MOUNTING COMPONENTS

continued

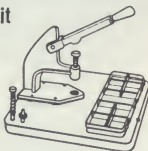
Etched Circuitry Materials

Easy to use for "do-it-yourself" etching using Alden or any copper clad card. Ideal for Lab Projects.

#AP-PC-EL Etchant	1 pint	\$1.30
#T3RBKV Resist Dots	60 for	.60
#T1BKVP Resist Tape	320" Roll	.77
#T½BKV Tape	320" Roll	.85
#AP-PC-RL Ball Point Resist Ink Applicator		\$1.30 ea.

Alden Universal Staking Tool Kit

Universal Tool: Stakes Alden Terminals to Alden Cards; eyelets card-mounting tube sockets and BR-10 bracket to cards; and punches .101" hole in Alden Cards or any ⅛" cold punch phenolic card. Complete with arbor, adjustable lever 3 punches, 4 anvils (separate anvil for #652DT Diode Terminal) and mounting boards with storage receptacles for punches and anvils not in use. TL651K



Price \$40.00 each.

Alden Basic Staking Tool

Includes just the arbor with adjustable lever #TL651A.

Price \$10.00 each.

To the basic Uni-Tool you can add these punches and anvils as required:

#TL651-1T Terminal Punch for staking diode terminal #652DT and Terminals #651T, #652T, #653T, and #654T. Price \$7.50 each.

#TL RS11-1T Eyelet Punch for eyelets. #RS35 (attaches bracket BR-10 to Alden Cards) and RS 11-1 (attaches Alden Card-Mounting Tube Sockets to Cards). Price \$5.00 each.

#TD651-101T Hole Punch—punches .101" hole in Alden Cards or any ⅛" cold punch card. Price \$5.00 each.

#TL651-2T Terminal Anvil—for Terminal Punch. Price \$2.50 each.

#TL651-2DT Diode Terminal Anvil for #652DT Diode Terminal—use Terminal Punch. Price \$2.50 each.

#TL-RS11-1B Eyelet Anvil for eyelet punch. Price \$2.50 each.

#TL651-101B Hole Anvil—for hole punch. Price \$2.50 each.

#TL551BB Mounting Board—allows you to use the tool without permanently bolting tool to bench. Stores anvils and punches not in use. Price \$2.50 each.

Eyelets

To attach card-mounting tube sockets to terminal cards.

RS11-1 1000 for \$5.50



To attach BR-10 brackets to terminal cards.

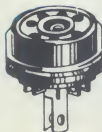
RS35 1000 for \$5.76



CARD MOUNTING TUBE SOCKETS

"Bareback" 7 pin miniature Straddle edge and eyelet to terminal card #407SMA

ea. \$.49



"Bareback" 9 pin miniature #409SMA

ea. \$.61



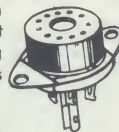
"Piggyback" 7 pin miniature socket with card mounting stud and chassis mounting saddle #407SPA

ea. \$.56



"Piggyback" 9 pin miniature socket with card mounting stud and chassis mounting saddle #409SPA

ea. \$.68



"Sidesaddle" 7 pin miniature socket with right angle mounting plate #407BMA

ea. \$.40

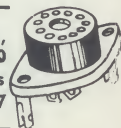


"Sidesaddle" 9 pin miniature socket with right angle mounting plate. #409BMA

ea. \$.52



"Bareback" octal, #408SA ea. \$.80 #408A less studs ea. \$.47

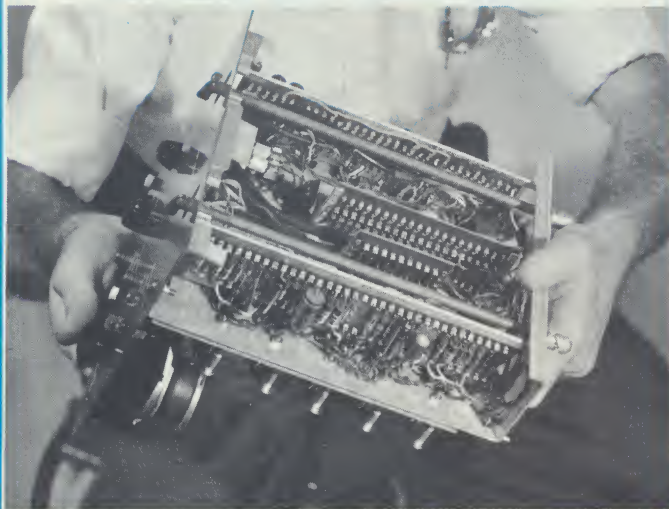


"Bareback" 11 pin non-interchangeable socket. Mates with Alden slide-in base #100Q-11. See Page . . . 12 #400-11SMA

ea. \$1.16



THE ALDEN BASIC CHASSIS SYSTEM



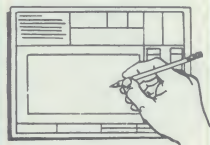
HEART OF ALDEN'S SLIDE-IN COMPONENT SYSTEM

Alden's Basic Chassis System makes packaging circuitry (almost) like child's play. When the engineer is ready to package his card-mounted sub assemblies, Alden provides him with a variety of basic slide-in chassis in which the circuitry is neatly arranged, by function, in vertical planes. (A typical chassis is featured here.)

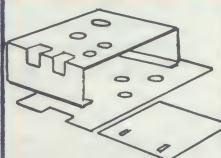
The variety of chassis sizes gives you the flexibility you need to solve any design problem — from single stage units to rack-mounted multiples. And there are other important advantages:

- **Neater, simpler layout** — circuitry is neatly unitized in compact planes.
- **Easier assembly** — each chassis element (terminal card, panel chassis, and back plate) fits naturally into subdivided methods of assembly.
- **Easier operation** — modular construction, plus Alden "tell-tales" for monitoring and sensing, makes operation easier for non-technical personnel.
- **Faster installation** — equipment packaged in Alden Basic Chassis and housed in mobile Alden Uni-Racks can be quickly rolled into position right from the shipping crate and plugged in for immediate operation.
- **Simpler servicing and maintenance** — sectionalizing makes possible smaller units — easier to service and maintain. Alden tell-tales, test jacks, and back connectors help spot trouble instantly, isolate it in 5 minutes, repair in 20 minutes — or replace in just 30 seconds with a standby spare.

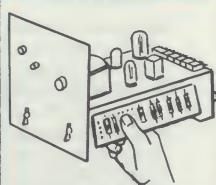
When you key your design to the Alden Basic Chassis you save time — all along the line — and assure yourself of reliability in service.



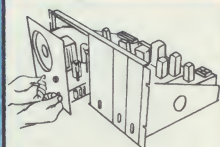
Indicate hole centers and sizes on full scale planning sheets for various size chassis.



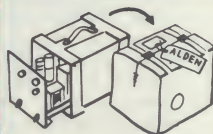
Planning sheets are used as templates to punch basic chassis to your specs.



Terminal card circuitry can be snapped in neat vertical planes.

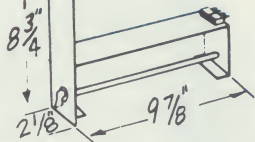


Completed chassis can be quickly plugged in to Alden Rack Adapter and included in standard rack.



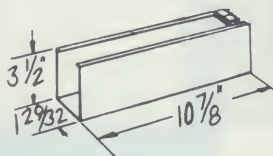
Completed chassis plug securely into carrying cases as portable equipment or for shipment as replacement unit.

ALDEN BASIC CHASSIS COMPONENTS



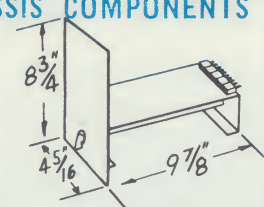
2" Basic Chassis

Includes front panel, serve-a-unit lock main chassis and two 4-contact male back connectors #462MINMB. Unit mates with cases at right. #11002-8 3/4-1A with 8 3/4" front panel. #11002-7-1A with 7" front panel. Price each: 1-4 \$7.90; 5-24 \$7.17; 25-99 \$6.44.



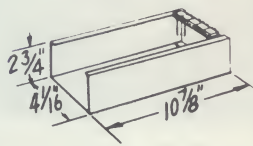
2" Chassis case

Includes detachable back plate with cam lock and two female back connectors, 462MINFS. Has holes for mounting to rack adapter, shelf, etc. #11002-3CA. Price each: 1-4 \$4.48; 5-24 \$4.03; 25-99 \$3.58. #11002-3CAV with vent hole in sides and bottom. Price each: 1-4 \$4.60; 5-24 \$4.15; 25-99 \$3.70.



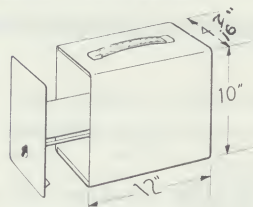
4" Basic Chassis

Includes front panel, serve-a-unit lock, main chassis and five (10 contacts) male back connectors #462MINMB. Unit mates with cases at right. #11004-8 3/4-1A with 8 3/4" front panel. #11004-7-1A with 7" front panel. Price each: 1-4 \$9.90; 5-24 \$8.96; 25-99 \$7.97.



4" Chassis case

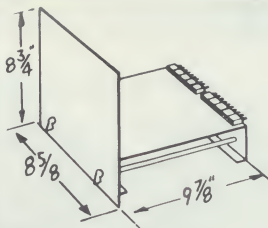
Includes detachable back plate with cam lock and five female back connectors #462MINFS. Has holes for mounting to rack adapter, shelf, etc. #11004-3CA. Price each: 1-4 \$4.88; 5-24 \$4.40; 25-99 \$3.90. #11004-3CAV with vent hole in sides and bottom. Price each: 1-4 \$5.00; 5-24 \$4.50; 25-99 \$4.00.



4" CHASSIS INSTRUMENT CASE

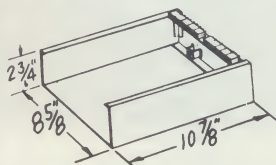
Includes one complete chassis, back plate, cam lock and 5 each male and female back connectors. (10 contacts) Instrument case has retractable leather handle and stands on four rubber feet. Front panel is recessed when chassis is locked in. Constructed of 1/16" cold rolled bonderized steel with baked gray enamel finish. Ideal for packaging portable instruments. #11004-8 3/4 CCA

Price 1-4 \$25.98
5-24 \$23.70
25-99 \$21.41



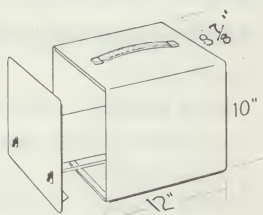
8" Basic Chassis

Includes front panel, 2 serve-a-unit locks, main chassis and ten (20 contact) male back connectors #462MINMB. Unit mates with cases at right. #11008-8 3/4-1A with 8 3/4" front panel. #11008-7-1A with 7" front panel. Price each: 1-4 \$18.40; 5-24 \$16.58; 25-99 \$14.74.



8" Chassis case

Includes detachable back plate with 10 female back connectors #462MINFS. Has holes for mounting to rack adapter shelf, etc. #11008-3CA. Price each: 1-4 \$7.80; 5-24 \$7.05; 25-99 \$6.25. #11008-3CAV has vent holes in sides and bottom. Price each: 1-4 \$8.00; 5-24 \$7.20; 25-99 \$6.40.



8" CHASSIS INSTRUMENT CASE

Includes one complete chassis, back plate, cam lock and 10 each male and female back connectors. (20 contacts) Instrument case has retractable leather handle and stands on four rubber feet. Front panel is recessed when chassis is locked in. Constructed of 1/16" cold rolled bonderized steel with baked gray enamel finish. Ideal for packaging portable instruments. #11008-8 3/4 CCA

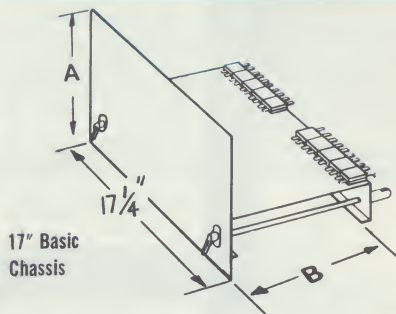
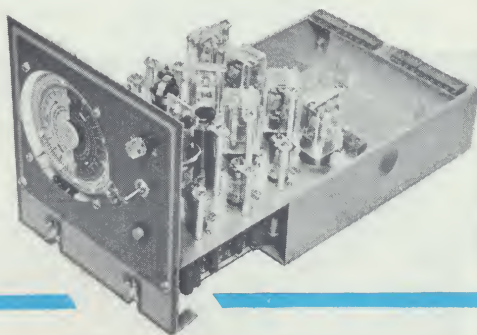
Price 1-4 \$34.15
5-24 \$31.00
25-99 \$27.84

2" CHASSIS INSTRUMENT CASE

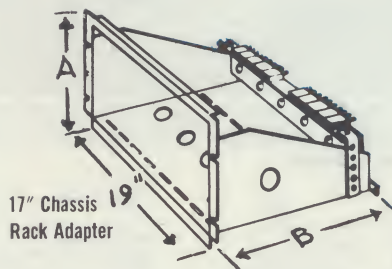
Includes one complete chassis, back plate, cam lock and 2 each male and female back connectors. (4 contacts) Instrument case has retractable leather handle and stands on four rubber feet. Front panel is recessed when chassis is locked in. Constructed of 1/16" cold rolled bonderized steel with baked gray enamel finish. Ideal for packaging portable instruments. #11002-8 3/4 CCA

Price 1-4 \$25.00
5-24 \$23.70
25-99 \$20.56

ALDEN BASIC CHASSIS COMPONENTS continued



17" Basic
Chassis



17" Chassis
Rack Adapter

Extra rugged for heavy components. Has 2 large Serve-A Unit Locks, panel, main chassis and 10 large back connectors. Mates with rack adapter at right for rack mounting.

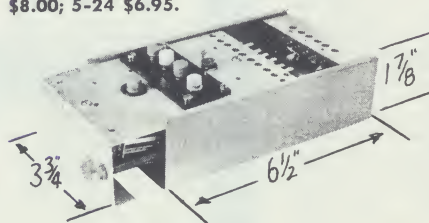
For Basic chassis at left mounts into Alden Uni-Racks or any conventional rack. Has lock frame with 10 large female back connectors.

PART NO.	A DIM.	B DIM.	1-4	5-24	25-99
11117-8-3/4L-1A	8 3/4"	13"	31.00	28.00	24.48
11117-8-3/4S-1A	8 3/4"	10 1/2"	31.00	28.00	24.48
11117-7L-1A	7"	13"	31.00	28.00	24.48
11117-7S-1A	7"	10 1/2"	31.00	28.00	24.48

PART NO.	A DIM.	B DIM.	1-4	5-24	25-99
11117-7SRA-LFA	7"	12 1/4"	18.25	16.30	14.50
11117-7LRA-LFA	7"	14 3/4"	18.25	16.30	14.50
11117-8-3/4LRA-LFA	8 3/4"	14 3/4"	18.25	16.30	14.50
11117-8-3/4SRA-LFA	8 3/4"	12 1/4"	18.25	16.30	14.50

Pocket Chassis

Ideal as compact slide-in unit for pre-amps, timers, and remote controls. Can be mounted on wall, desk, bench or piggy-back fashion on larger chassis. Includes case with back plate, cam socket and 5 female back connectors (462MINFS) and main chassis with Serve-A-Unit and 5 male back connectors (462MINMB) #11600-CA. Price each: 1 \$12.00; 2-4 \$8.00; 5-24 \$6.95.



CASE MOUNTS BY SCREWS
TO ANY POSITION

IN SERIES

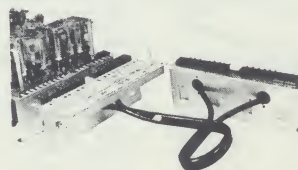


PIGGY BACK

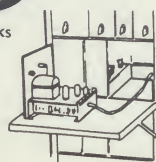
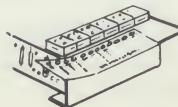


Chassis Adapter Cables

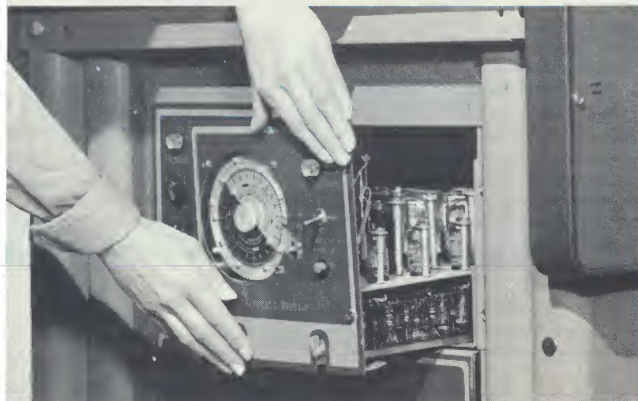
Adapter cables make on-the-spot checking, adjusting, calibrating or trouble-shooting easy. Just remove chassis, plug on female end of adapter cable and plug male end into equipment. Put circuit legend plate on female end. Plate shows in pictorial color code, forms and values of various inputs and outputs easily checked with VTVM or scope at points of check on back connectors. 11 6018P-TAC



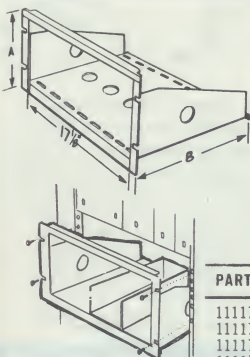
in service checks



ALDEN UNI-RACKS AND COMPONENTS



Alden Uni-Rack accommodates all Alden slide-in chassis modules, or any standard 19" rack-mounted component.



Rack Adapter

Makes it simple to rack mount Alden Basic Chassis — takes combinations of 2", 4" and 8" or one 17" chassis per level. New "picture-frame" design gives neat appearance to front panels — eliminates tedious line-up adjustments. Designed for Alden Mobile Uni-Rack but fits any standard relay rack. Has vent holes; $\frac{1}{8}$ " CRS, precision baked gray enamel finish. Available in 2 heights and depths.

PART NO.	A DIM.	B DIM.	1-4	5-24	25-99
11117-7SRA*	7"	12 $\frac{1}{4}$ "	8.00	7.15	6.35
11117-8 $\frac{3}{4}$ SRA*	8 $\frac{3}{4}$ "	12 $\frac{1}{4}$ "	8.00	7.15	6.35
11117-7LRA	7"	14 $\frac{3}{4}$ "	8.00	7.15	6.35
11117-8 $\frac{3}{4}$ LRA	8 $\frac{3}{4}$ "	14 $\frac{3}{4}$ "	8.00	7.15	6.35

*For Alden Uni-Racks of 13 $\frac{1}{4}$ " only.

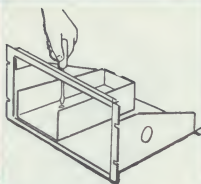
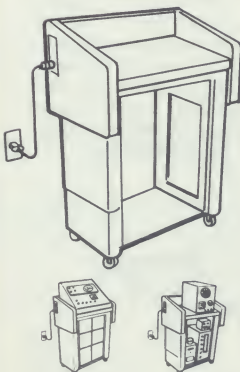
Mobile Electronics Center

Mount your test or inspection gear in the Center and roll anywhere. Has 6' detachable line cord, indicating fuse-holder, power on-off light and line switch — ready to slide-in and operate. Removable bench top permits change-overs. Spare tops can be on hand already set-up for standard procedures. Also ideal for on-the-spot servicing or mobile control center. Convenience outlets along back for solder guns, trouble lights, power tools; VTVM'S, scopes, etc. Then rack mount, equipment in Uni-Rack conventional fashion.

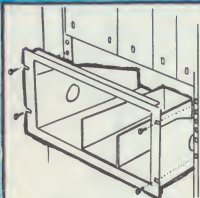
Rugged steel construction, precision baked gray enamel finish. Removable wood bench top covered in durable gray asphalt tile. Shipped knocked down — easily assembled in $\frac{1}{2}$ hour, needing only a wrench and screw driver. All hardware instructions included.

#5203-DT-1CA

Price \$95.00



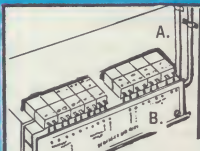
Chassis cases mount easily in Rack Adapter to accommodate chassis.



Completed Rack Adapter mounts in standard rack by 4 screws.



Modular chassis plug in to rack mounted adapter as "building block" functions.



A. All leads and cables easily accessible. Ample room in side channel for cabling.
B. All in/out leads graphically identified.



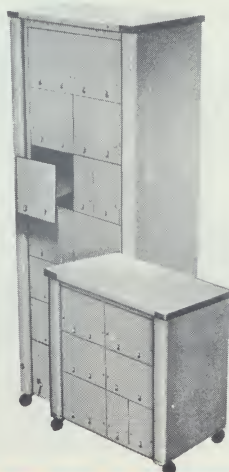
Finished equipment can be mobile — ready to roll in, slide in for immediate operation.

ALDEN UNI-RACKS

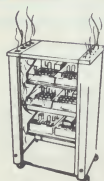
The Uni-Rack is a versatile cabinet rack pre-engineered to meet most enclosure needs. The Uni-Rack accepts Alden slide-in modular chassis (above) and all standard 19" rack mounted equipment.

Low model fits under typical bench so can easily be standard or test set-ups in labs or on production line housing process controls or in-line test equipment.

With 4 swivel casters — rolls anywhere or can be permanently located against wall, bulkhead, etc. Rugged steel construction, gray enamel finish. Attractive. Standard mounting holes. Back provided with filler panel, vent strip and input/output connection strip. Also available with sliding, waist-high servicemen's shelf. Shipped knocked down — easily assembled in 15 minutes. Wgt. 70 lbs.



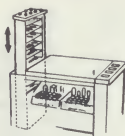
Ample space for cabling.



Chimney effect in channels.



Baffles direct forced air flow to cool electronics.



Vertical controls plug into channel.

WITH ONE PIECE TOP COVER

PART NO.	Panel Space	Inside Depth	1-4	5-24	25-99
11,024-SURL	24½"	13¼"	54.00	48.25	43.00
11,024-LURL	24½"	15½"	54.00	48.25	43.00
11,060-SURL	61¼"	13¼"	67.00	60.50	53.60
11,024-60-LURL	61¼"	15½"	67.00	60.50	53.60

To order Uni-Rack with casters assembled, add "C" to above Part Numbers and add \$4.72 to the above Prices.

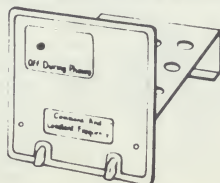
WITH THREE PIECE TOP COVER

PART NO.	Panel Space	Inside Depth	1-4	5-24	25-99
11,024-3T-SURL	24½"	13¼"	56.00	50.00	45.00
11,024-3T-LURL	24½"	15½"	56.00	50.00	45.00
11,060-3T-SURL	61¼"	13¼"	69.00	62.25	55.25
11,024-60-3T-LURL	61¼"	15½"	69.00	62.25	55.25

To order Uni-Rack with casters assembled, add "C" to above Part Numbers and add \$4.72 to the above Prices.

Alden Hole Punching and Silk Screening Service.

Basic chassis and panels can be provided punched for mounting tube sockets, jacks, fuse-holders, indicator lights per Alden Layout Sheets. Price per hole 25c. Chassis and panels silk-screened with symbols, words, etc. Price \$15.00 per screen, 50c per impression. For production runs send drawings, quantity and schedule for quotes.



Alden Layout Sheets for Alden Basic Chassis.

Save layout time. Use these handy scale-size drawings to layout your chassis and panels. Sheets are reproducible. Set of 25 for 25c. Specify whether for Alden 2", 4" or 8" Basic Chassis.



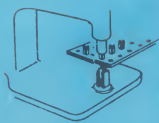
Alden Speed-Wrench

Use to assemble Alden Mobile Electronics Center and Mobile Uni-Racks quickly. #5203-23. Price \$2.50.





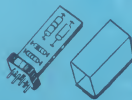
Lay out your smaller circuits graphically on Alden full scale unit planning sheets.



Push in terminals at designated points in pre-punched cards and stake in



Snap components into jaws of terminals — solder all at once.



Attach slide-in base and snap into can — Completed assembly is ready for use.



Alden Slide-in Unit Packages as used by Tabei Instrument Corporation for germanium transistor amplifier — Its miniature size, light weight, and ruggedness adapt it to portable and airborne instrumentation.

ALDEN SLIDE-IN UNIT PACKAGES

These versatile, compact packages come in a variety of layouts and sizes to answer a wide range of needs. Easy to assemble from just a few standard parts — can be chassis, rack or panel mounted. Always accessible for quick checking.

Alden 7 Pin Miniature Slide-in Package

Here's an ideal package for transistor circuitry.

#10007Q-1TC has 8 terminals #652T and 1 ea. can #C10007, base #907MIBQ-1A w/card mtg. stud, and card #650-7-1 eyeleted to stud. Price ea. 1-9 \$.98; 10-49 \$.88; 50-99 \$.78.



#10009Q-1T-7C

same as above but has 7 pin min. socket eyeleted to top of terminal card. Price ea. 1-9 \$1.66; 10-49 \$1.50; 50-99 \$1.33. W/bail \$2.13, \$1.92, & \$1.70. W/tube base shield \$1.74, \$1.57, & \$1.39. W/shield and bail \$2.36, \$2.12, & \$1.89.



7 Pin Bases

#907MIBQ-1A has card mounting stud. #C10007 crimps to base. Price ea. 1-99 68c; 100-499 61c.



#907MIBQ-1 has .098" center hole with hex depression. Can #C10007 crimps to base. Price ea. 1-99 47c; 100-499 42c.



#C10007 aluminum housing, 3/4" sq. x 1 1/4". Price ea. 1-9 12c; 10-49 11c; 50-99 \$9.60/C



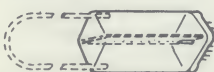
#650-7-1 terminal card. Eighteen .101" terminal holes. 1/16" XXXP Phenolic. Price 1-100 15c



Alden 9 Pin Miniature Slide-in Packages

Ideal for packaging circuitry using transistors or single tube units.

#10009Q-1TC has 8 terminals #652T, 1 each can #C10009, base #909MIBQ w/card mtg. stud & #650-9-1 card eyeleted to stud. Price ea. 1-9 \$1.10; 5-25 99c; 25-100 .88. W/bail \$1.70, \$1.53, & \$1.36.

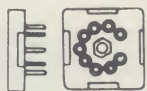


9 Pin Bases

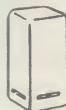
#909MIBQ-1A has card mounting stud. Can #C10009 crimps to base. Price each 1-99 .73c 100-499 .66c



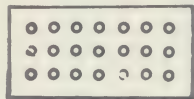
#909MIBQ-1 w/.098" center hole w/hex depression. Can #C10009 crimps to base. Price ea. 1-99 57c; 100-499 51c.



#C10009 aluminum housing, 2 3/32" sq. x 2 3/16". Price ea. 1-9 15c; 10-49 .13c; 50-99 .12c.



#650-9-1 XXXP terminal card has twenty one .101" holes. Price ea. 1-99 15c



ALDEN SLIDE-IN UNIT PACKAGES continued

Alden 11 Pin Slide-in Packages

Here's a slightly larger slide-in unit that fills the need for more volume than in the miniature types. Rugged base has 11 stubby pins available in a non-interchangeable pattern. No fragile boss to break off — pins will not bend.

Although these are available in several standard packages (see Alden Handbook — Slide-in Section) listed here are the individual components so you can make up a package to fit your needs.

Bails

#H10011-2A bail with 2 screws for securing to base #100Q-11. Price each 1-9 78c; 10-49 71c; 50-99 63c.

Housings

#C10011 Aluminum can with screws for securing to base #100Q-11. 1 1/8" square x 3 1/2" high. Price ea. 1-9 31c; 10-49 .28c; 50-99 \$.25.

#C10011-7 has hole punched in top for socket #407SMA. Price ea. 1-9 .35c; 10-49 .31c; 50-99 .28c.*

#C10011-7AS same as #C10011-7 but with tube base shield attached to can. Add .15c for one 7 or 9 pin base shield or .30c for two.

#C10011-7ASH same as #C10011-7AS but has holes punched for bail. Add .15c for one 7 or 9 pin base shield or .30c for two.

*#C10011-9 has hole punched in top for 409SMA socket. Same Price.

**#C10011-9AS has 9 pin min. socket hole and base shield. Same price as above.

***#C10011-9ASH has 9 pin socket hole, base shield attached and holes for bail. Same price as above.

Card Mounting Sockets

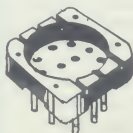
See page 5 for types 407SMA and 409SMA.

Terminal Mounting Card

#650-11-1 XXXP phenolic pre-punched terminal card mounts in card slots in #100Q-11 base. See Page 2 for terminals. Price ea. 1-24 18c; 25-49 16c; 50-99 14c.

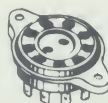
Bases

#100Q-11 11 pin non-interchangeable base. Can #C10011A screws to tapped holes in molding. Available in variable pin pattern. Price ea. 1-99 62c; 100-499 \$55.50/C



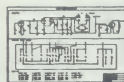
Sockets

#400-11 11 contact non-interchangeable socket with mounting plate. Available in variable contact pattern. Chassis hole 1 1/8" dia., 1 1/2" mtg. ctrs. Price 1-100 .94c ea.



Planning Sheets

UPS-5-253 Planning Sheets for selecting pin pattern and terminal card layout. Price 25 for 25c.

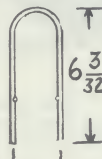


Alden 20 Pin Slide-in Packages

Here's a slide-in package that has been a standard for many years. Extremely compact yet has sufficient volume for two tubes and associated circuitry. Consult your Alden Handbook, Slide-in section, for complete selection of standard packages and variable pin patterns for non-interchangeability.

Bails

Insert convenient handle for inserting and withdrawing slide-ins through can or lid and screw to base. H10020-4A for use with lid and single card packages. H10020-5A for use with lid and two card package. H10020-2A for use with can and one or two card pkg. Price ea. 1-9 46c; 10-25 41c; 50-99 \$36.50/C



Lids and Housings

To basic part number add L for lid or C for can. Add suffix SA for tube base shields attached to can; add H for bail holes.



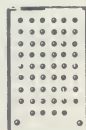
Add .15c for one 7 or 9 pin base shield or .30c for two

Basic Part #	Description	Lid	Housing
10020	No socket holes	\$.08	\$.47
10020-7	For min. 7 sckt.	\$.08	\$.50
10020-77	For 2 min. 7 sckts.	\$.08	\$.50
10020-9	For min. 9 sckt.	\$.08	\$.50
10020-99	For 2 min. 9 sckts.	\$.08	\$.50
10020-79	For 9 and 7 sckts.	\$.08	\$.50



Terminal Cards and Terminals Alden "20" Bases

#100Q-20 Has 20 pins. Provided with mounting holes for bail, can and terminal cards. General purpose phenolic insulation. Others available. Price ea. 1-99 99c.



Rack Mounting Sockets

#400LG-20 Has 20 resilient beryllium copper contacts. General purpose phenolic insulation. With high impact top molding. Price ea. 1-99 \$1.97.

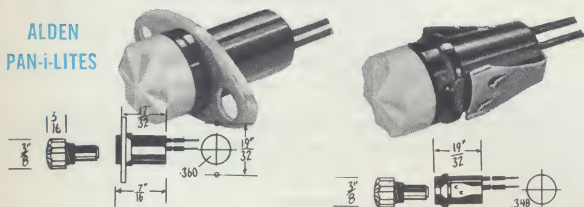


ALDEN FRONT PANEL "TELL TALES" AND TEST POINTS



These tiny "tell-tales" for every piece of equipment make servicing and troubleshooting simple. Use them to monitor electrical and mechanical functions—tell operator when malfunction occurs—help spot source of trouble—simplify checking—adjustments—protect costly components. Order a few of each type to have on hand for projects or prototypes.

ALDEN PAN-I-LITES



Incandescent

Unique, tiny indicator lights having integral bulb-lens unit. No need for special jewels, magnifying lens or refracting caps. Give brilliant glow — visible 180°. Choice of 6, 12, or 28 v. in ruby, pearl, sapphire, emerald or topaz. Two mounting types — fast push in or mounting plate. Life expectancy 1000 hours average. Has two 12" leads. Order bulb-lens unit and socket assembly separately. Be sure you have a few of each voltage and color on hand at all times. Real space savers.

Bulb-lens

#86LAF — followed by first letter of color and voltage; e.g., ruby, 12 volt is #86LAF-R 12 v.
Prices each \$1.99 — .80.

Socket

#86BMA push mount Price \$.20 ea. 1-99
#86BMBA plate mount Price \$.20 ea. 1-99

Neon

Tiny indicator light has integral bulb-lens unit, easily replaced from front of panel. Draws negligible current; life expectancy indefinite. Available for 110 v. or 220 v. Two 12" leads with resistor in one lead. Clear lens or red tint. Include a few of these on your next order.

Bulb-lens:

#86LAN	clear	\$.99 ea. 1-99
#86LAN-R	red tint	\$.99 ea. 1-99
#86LAN-A	amber tint	\$.99 ea. 1-99

Socket:

#86BMA-110v.	push mount	.44 ea. 1-99
#86BMBA-110v.	plate mount	.44 ea. 1-99
#86BMA-220v.	push mount	.44 ea. 1-99
#86BMBA-220v.	plate mount	.44 ea. 1-99



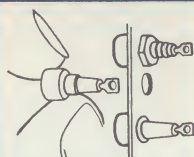
Alden Pan-i-Lite mounts from front of panel. Simply drill hole and snap-in socket.



Bulb and lens are combined in one-piece unit that mounts securely by simple twist of wrist.



When indicating fuse-holder glows unscrew bulb/lens unit automatically removing fuse for replacement.



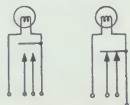
'Stak-in test jack has unique molded in eyelet — simply punch or drill hole and stake securely into place.



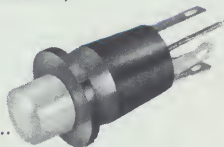
New staking jack eliminates bulky banana plugs — permits higher concentration of test points.

ALDEN FRONT-OF-PANEL TESTING AND SENSING DEVICES

Pan-i-lite Switch (incandescent)



Up ... Depressed...



Compact momentary contact indicating switch provides fingertip control for monitoring, switching, and checking functions. Lamp portion is integral bulb-lens unit; socket housing contains switch. Ideal for pulsing low voltage relays, solenoids, etc. Rugged nylon lens cap and socket. Available in 6, 12, and 28 volts and 5 colors — ruby, pearl, emerald, sapphire and topaz. Switch handles 2 amps. Be sure you try one of these. **Lamp unit: #86LATS** — followed by first letter of color and voltage; e.g., ruby 12 volts; #86LATS-R12v. **Price ea. \$.80 1-99**
Socket Unit: #386BMA-1 Price ea. \$1.30 1-99

Alden Fuse-Lites

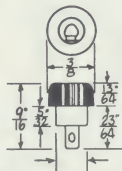
Here's a compact panel-mounting fuseholder that indicates when fuse is blown. Fuse blows — lite glows. Takes standard 1/4" x 1 1/4" fuse. Protect your equipment with Alden Fuse-lites. For 6, 12, 28, 110 and 220 volts, 15 amps at 110 volts, 7.5 amps at 220 volts.



#440-5FH-220v. #440-5FH-110v.
#440-7FH-28v. #440-7FH-12v.
#440-7FH-6v. **Price ea. \$1.00 1-99**

#110SMI Stak-in Sub-Mini Test Jack

Here's a real space saver for production use. Integrally molded eyelet gives fast, secure mounting—slashes assembly costs, won't shake loose or fall out. Resilient phosphor bronze contact, electro-tin plated, tough nylon insulation. Up to 1000v. DC operating. Choice of colors: red, black, blue, green, orange, brown, yellow, and white. **Order #110SMI. Specify quantity and color.** Write for production prices.

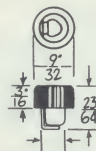


#110SMI (small quantities)

\$1.13 each

#110PCI Printed Circuit Test Jack

At last—a true test point for printed circuitry. So small you can have several per board—make it easy for servicemen to check or trouble shoot. Easy to mount—just push in with finger or fixture. Resilient phosphor bronze contact, electro-tin plated for fast dip, wave or jet solder methods. Solder can't work into contact. Nylon molding in 8 colors: red, black, brown, blue, orange, yellow, white and green for color coding. **Send for sample and price giving quantity, color and schedule.**



#110PCI (small quantities)

\$.12 each

Nut Mounted Mini-test Jacks

A whole series of tip jacks in a variety of colors. All have super-resilient beryllium copper contact, silver plated; tin dipped solder tab. #110BCS (phenolic) Colors: red, green, brown. Price \$.24 ea (Nut included). Blk. **\$.23 ea**
#110BCSI (nylon) Colors: red, black, green, white, orange, blue, yellow and brown. Price **\$.25 ea.** (Nut included).
#110BCSI (Kel-F) Colors: clear or olive only. Price **\$.35 ea.** (Nut included).



Stak-in Mini-test Jacks

Here's a low-cost, rugged, miniature tip jack that can reduce your assembly costs tremendously. It mounts quickly and securely by an integrally molded eyelet using standard eyeleting techniques. Colors: red, black, green, white, orange, blue, yellow and brown. Nylon insulation. #110BCI **Price 13.5c ea.**
Punch and Anvil Set for mounting #110BCI Stak-in Jacks. #TL110BCI. **Price \$10.00** Specify panel thickness



Mini-test Prods

Unbreakable, polyethylene insulation for .080" test jacks. Lead is #20 flexible rubber covered 18" long or to your specs. Single or jumper, red or black. Other colors in quantity.
#1111' single, black **\$1.00 ea.**
#1111RL single, red **\$1.00 ea.**
#1111L-2 jumper, blk. **\$1.20 ea.**
#1111RL-2 jumper, red **\$1.20 ea.**



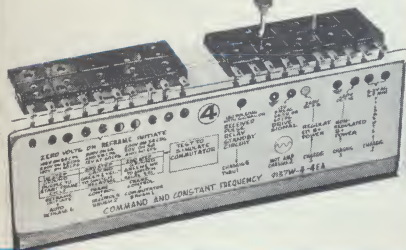
ALDEN "MINI-STACK" PATCH CORD

Miniature patch cord has male prod one end, female contact on opposite end for stacking. Integrally molded of unbreakable resilient polyethylene, with triangular punch press contact that "gives" to provide positive, contact pressure. #20AWG Rubber insulated lead supplied, 18" long, or to your specs. Single or Jumper in 4 brilliant colors: Green, Yellow, Red, Black.



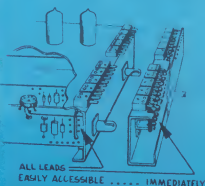
Single #111SFL Jumper #111SFL-2

ALDEN BACK CONNECTORS FOR "SINGLE CHECKPOINT" TESTING

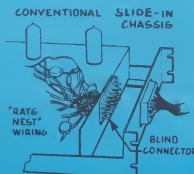


Alden Back Connectors make inputs and outputs quickly and easily identifiable and accessible for quick circuit checks. They are designed specifically to provide electrical make and break for slide-ins. Female contacts have plenty of float, so that no critical alignment of the slide-in unit is required.

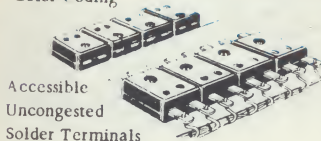
Use Alden Back Connectors to convert fixed chassis designs to slide-in Plan to use them in your next design — order a few of each type to have on hand.



Alden slide-in chassis



Color Coding



Simple Screw Mounting



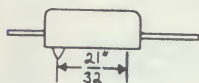
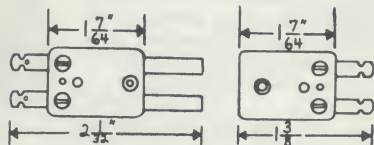
Floating Clip Action



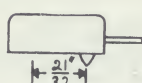
Accurately Positioned by Boss

LARGE BACK CONNECTORS

Gray phenolic insulation 20 amp. rating — beryllium copper contacts — silver plated for 60 hour salt spray.

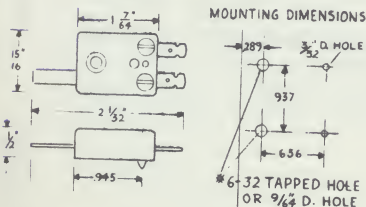


No. 462MS
1-99 29 c



No. 462FS
1-99 39 c

HERMAPHRODITE

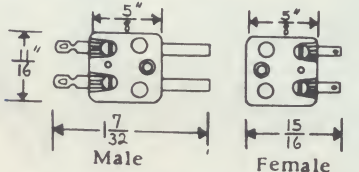


462MSRH

1-99 .41

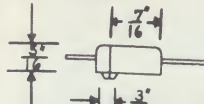
MINIATURE BACK CONNECTORS

Gray phenolic insulation 15 amp. rating — silver plated for 60 hour salt spray.

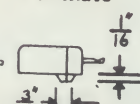


Male

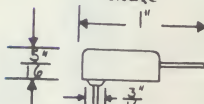
Female



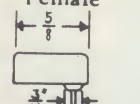
462MINMS
1-99 23 c



462MINFS
1-99 30 c

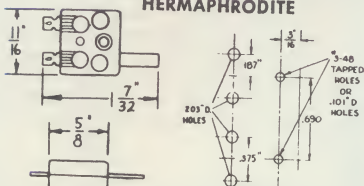


462MINMB
1-99 25 c



462MINFB
1-99 32 c

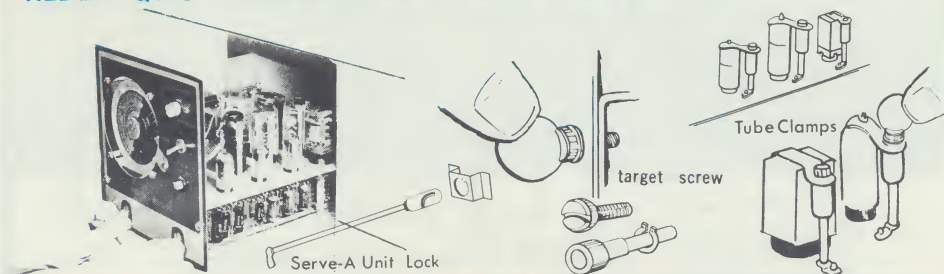
HERMAPHRODITE



462M1NMSLH

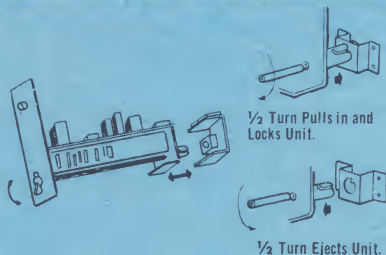
1-99 .41

ALDEN QUICK LOCKING AND FASTENING DEVICES



Alden Serve-A-Unit Locks

Alden Serv-a-Unit Locks make it possible to slide in, lock, and eject the chassis with a half-turn of the wrist. In two sizes: large, for heavy units (power supplied); and miniature for lighter units. Usable singly or in pairs, horizontally or vertically.



Miniature Serve-a-Unit Lock

For small units

Cam $\frac{1}{2}$ " dia. Shaft is 10" or to your specs. Specify overall dimension from front to back of Chassis (including panel) or unit.

#11005-3LA left #11005-3RA right. Price ea. \$3.64 1-5.



Large Serve-a-Unit Lock

For heavy units, $\frac{1}{2}$ turn locks in or ejects. Cam nose approximately 1" indiameter. Shaft length determined by overall out. side dimension from front to back of chassis (including panel) or unit. Complete with turn indicator plate and handle. CRS, cad. plate.

#11019-3ALH left, hand #11019-3ARH right hand. Price \$7.70 ea. Specify shaft length.



Lock Plate

For large Serve-a-Unit Lock.

$1\frac{1}{32}$ " x 2 x $\frac{1}{8}$ ". Has two $\frac{3}{32}$ " dia. mounting holes on $\frac{1}{2}$ " centers. CRS, cad. plate.

#11,019-5-3

\$1.00 ea. 1-9.



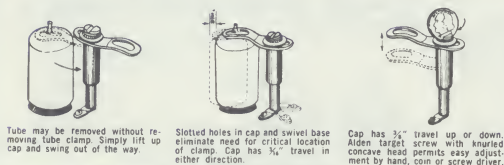
Cam Socket

Receptacle for Lock. Spot welds to mounting surface. CRS, cad. plate.

#11005-2-2 \$3.30 each. Also available with plate to allow bolt and nut mounting. \$5.50 each.



ALDEN TUBE AND PLUG-IN CLAMPS

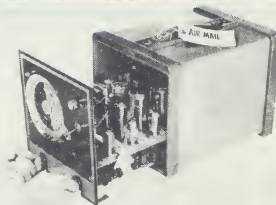


Tube may be removed without removing tube clamp. Simply lift up cap and swing out of the way.

Slotted holes in cap and swivel base eliminate need for critical location of clamp. Cap has $\frac{1}{4}$ " travel in either direction.

Cap has $\frac{1}{4}$ " travel up or down. Alden target screw with knurled concave head permits easy adjustment by hand, coin or screw driver.

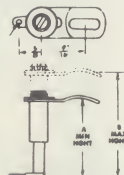
Simple one hole mounting with eyelet or screw takes minimum of space...



Designed to protect tubes and slide-ins in transit, these sturdy Alden clamps permit you to ship equipment anywhere — with tubes installed — and insure safe arrival, in operating condition. Space-saving design, fast, single-hole mounting by eyelet or screw. Proper tension maintained by spring loading.

Tube Clamps for Miniature Tubes

Part #	Jetec #	A	B	Price each
320MIN-6	5-1	1- $\frac{3}{4}$ " to 1- $\frac{1}{2}$ "	1-10	\$1.68
	6-1		10-50	\$1.50
320-MIN-9	5-2	1- $\frac{1}{2}$ " to 1- $\frac{3}{4}$ "	1-10	\$1.72
	6-2		10-50	\$1.55
320-MIN-13	5-3	2" to 2- $\frac{3}{4}$ "	1-10	\$1.82
	6-3		10-50	\$1.64



QUICK LOCKING AND FASTENING DEVICES *continued*

TUBE CLAMPS $\frac{3}{8}$ " Adjustment

For Glass Tubes (Octal and other bases). Type T and ST Bulbs.

Part #321A Price 1-9

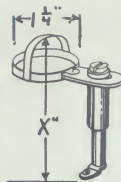
\$2.35 10-49 \$2.13

Available in X dimension from 1- $\frac{3}{4}$ " to 4- $\frac{7}{8}$ " Specify part number and X dimension. For type ST Bulb.



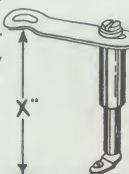
Metal Tubes (6.15 etc.)

#325A clamp is adjustable vertically $\frac{3}{8}$ " and horizontally $\frac{5}{16}$ ". X available from 1- $\frac{1}{2}$ " to 4- $\frac{5}{8}$ " Specify part number and X dimension.

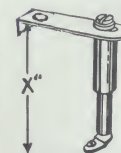


#322A For Glass tubes type ST bulbs having top cap. Clamp adjustable vertically $\frac{3}{8}$ " horizontally $\frac{5}{16}$ ".

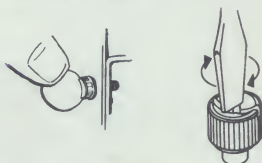
X dimension from 1- $\frac{1}{2}$ " — 4- $\frac{1}{2}$ ". Specify part # and X dimension.



#323A for square and round shaped slide-in relays, condensers, etc. Clamp adjustable vertically $\frac{3}{8}$ ", horizontally $\frac{5}{16}$ ". X dimensions available from 1- $\frac{1}{8}$ " to 4- $\frac{1}{4}$ ". Specify part number and X dimension.



Alden Target Screws



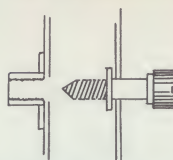
CONCAVE HEAD
INSTANTLY LOCATES
COIN OR SCREW DRIVER

Stainless steel screws for applications requiring rust and corrosion resistance anti-magnetic and attractive appearance. Can be power driven or use hand driver or coin. Unique concave knurled head centers driving device. Order a dozen of each type for a complete lab assortment.



Part #	Description	Price
4640-6	$\frac{1}{4}$ -20 NC-2	12 for \$4.08
4640-8	dash # shows	12 for 4.20
4640-12	thread length in	12 for 4.44
4640-16	16 inches. Head measures $\frac{7}{16}$ " dia. $\frac{3}{16}$ " long	12 for 5.40
4652-6	same as above	12 for 2.52
4652-8	but 10-32 NF-2	12 for 2.76
4652-12	Head is $\frac{3}{8}$ " x $\frac{9}{64}$ "	12 for 3.60
4652-16		12 for 4.68
4653-6	same as above	12 for 2.76
4653-8	but 8-32 NC-2	12 for 3.96
4653-12	Head $\frac{3}{8}$ " x $\frac{9}{64}$ "	12 for 5.28
4653-16		12 for 6.84
4664-6	same as above	12 for 3.96
4664-8	but 6-32 NC-2	12 for 4.32
4664-12	Head $\frac{5}{16}$ " x $\frac{1}{8}$ "	12 for 5.64
4664-16		12 for 6.60
4665-6	same as above	12 for 4.92
4665-8	but 4-40 NC-2	12 for 5.64
4665-12	Head $\frac{1}{4}$ " x $\frac{1}{8}$ "	12 for 6.72
4665-16		12 for 8.28

Alden Cap-Captive Screws and Rings



CAPTIVE RING PERMITS
QUICK POSITIONING
TIGHTEN WITH COIN OR
SCREW DRIVER



Here's the ideal screw for holding captive mechanical, electrical or electro-mechanical slide-in or slide in units. Screw can be power driven or hand driven or backed off using driver, coin or Allen wrench. Knurled head is concave — helps center driver in hard to reach spots. Made of CRS, cad. plated. See Alden Handbook pages 13A/PI, 13E/PI, for complete listing — various lengths, points, and extra longs. Undercuts available. Order by dozen or larger lots.



Part #	Description	Price
4600-2-12R	$\frac{1}{4}$ " 20 NC-2	12 for \$4.32
4600-2-16R	Bullet Nose.	12 for 4.68
4600-2-20R	$\frac{3}{4}$ " of thread. Last two.	12 for 5.04
4600-2-24R	numbers in part # is shaft length in 16th". Head dia. $\frac{3}{16}$ ", lgth. $\frac{7}{16}$ "	12 for 5.40
4602-2-12R	Same as above	12 for 3.96
4602-2-16R	except 10-32 NF-2	12 for 4.32
4602-2-20R		12 for 4.68
4602-2-24R	head is $\frac{3}{8}$ " x $\frac{1}{4}$ "	12 for 5.04
4603-2-12R	Same as above	12 for 3.60
4603-2-16R	but 8-32 NC-2	12 for 3.96
4603-2-20R	head is $\frac{3}{16}$ " x $\frac{3}{16}$ "	12 for 4.32
4603-2-24R		12 for 4.68
4604-2-12R	Same as above	12 for 3.60
4604-2-16R	but 6-32 NC-2,	12 for 3.96
4604-2-20R	head $\frac{1}{4}$ " x $\frac{3}{16}$ "	12 for 4.32
4604-2-24R		12 for 4.68

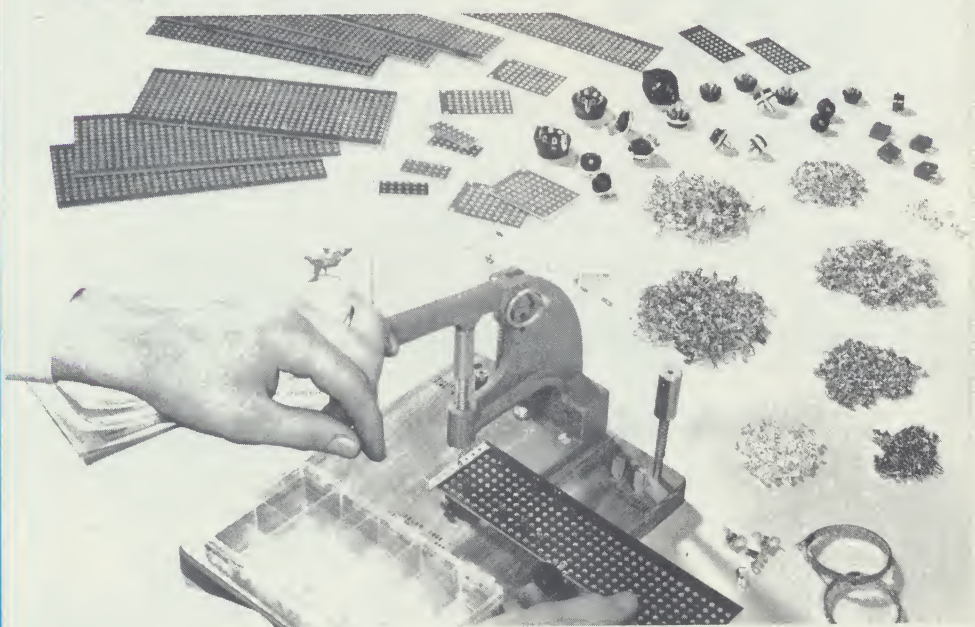
ALDEN "GET- STARTED" KITS

Everything you need to assemble a wide variety of prototypes and evaluate Alden building block techniques on your own equipment at rock bottom cost. From these basic assortments, you can readily determine quantities to stock for individual day to day needs.

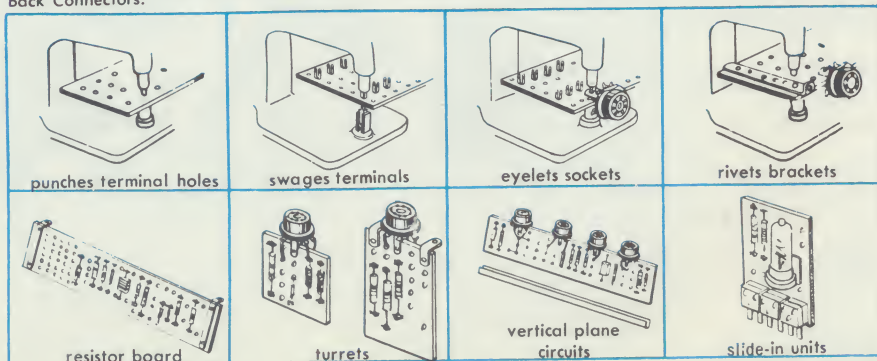
MOVE FROM SCHEMATIC TO CIRCUIT FAST . . .

ALDEN TERMINAL CARD MOUNTING KIT NO. 42 \$49.95

The heart of this kit is the Universal Staking Tool which punches terminal holes, swages terminals, eyelets sockets and rivets brackets simply by changing punch and anvil. You can lay out your schematic in production form — move directly to circuit wiring and the hours you save on standard mechanical routine can be spent on theory or creative design. Literally everything is included for simplified, time-saving circuitry layout.

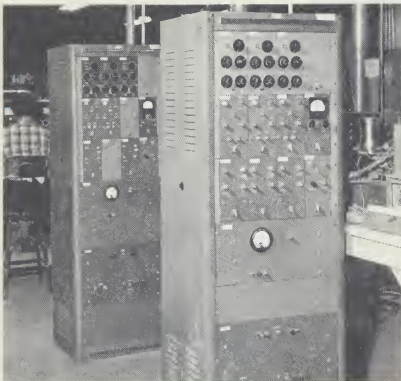


Contents: (1) TL651K Universal Staking Tool; Terminal Cards (6) 650ATMS-1 (3) 650ATMS-1B, (2) 650-20-1, (2) 650-20-2, (2) 650-11-1, (2) 650-7-1, (2) 650-9-1. Terminals: (100) 651T, (100) 652T, (100) 653T, (100) 654T, (100) 652DT; Tube Sockets: (4) 407SMA, (4) 409SMA, (2) 407SPA, (2) 409SPA, (2) 407BMA, (2) 409BMA, (3) 408SA; Misc.: (10) BR5, Brackets, (10) BR10, Brackets, (2) CS461 Crossover connector, (6 ft.) 650J Jumper Strip, (100) Assorted eyelets, (26) Planning Sheets. (4) Assorted Miniature Back Connectors.



Field reports prove acceptance of Plug-in Unit Construction by leaders in the Electronics Industry.

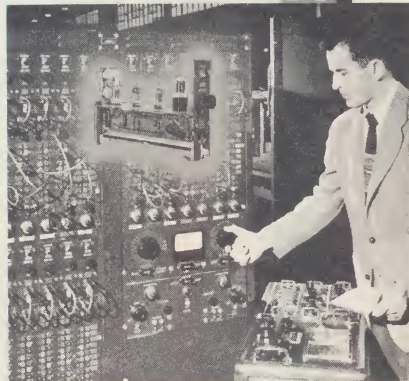
Electronics manufacturer reports reduced down time, simpler maintenance — thanks to Alden



These testing stations are typical of the Resistor Processing Equipment being produced by Centralab (Div. of Globe-Union Co.). Here's what the company has to say about the advantages of Alden plug-in construction:

"In the past, maintenance and down time affected our production efficiency. Alden's plug-in unit construction has helped us to install or remove individual sections of test gear quickly with a minimum of down time. Reduced circuitry per unit gives us faster and simpler maintenance plus versatility when substitution or replacement becomes necessary."

Alden building blocks cut 7 weeks layout and construction time on analogue computer

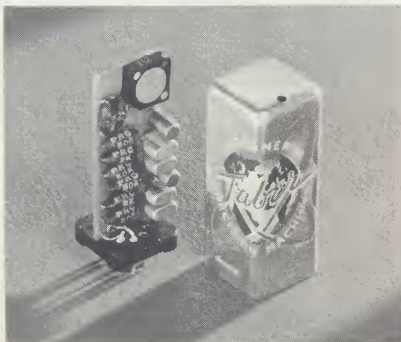


Engineers at Battelle Memorial Institute, utilizing the Alden Terminal Card Mounting System for circuitry mounting, and the Alden 2" Basic Chassis for housing, saved 7 weeks in costly packaging and mechanical engineering time in building the prototype for a new, compact analogue computer.

The simple, plug-in unit Alden design permitted exceptional design flexibility, enabling the engineers to update the computer with more current circuits. Since the prototype was built, the group has made additional models, using the original planning to duplicate the equipment at low cost with great speed.

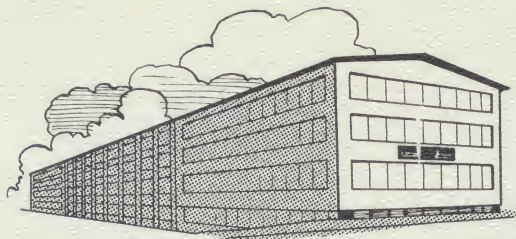
Alden plug-in units have been widely used in the computer field, not only in the smaller computers built by universities and research groups, but in such equipment as the Harvard Mark VI and General Electric's ORAC.

TRANSISTORIZED MODULES GAIN MORE FLEXIBILITY —SAVE SPACE THROUGH THE USE OF ALDEN PLUG-IN PACKAGES



Miniature Transistor Amplifiers and Silicon Diode Demodulators in compact slide-in modules by Taber Instrument Corporation have been made possible through the use of Alden Slide-in Packages. Their miniature size, light weight, and ruggedness adapt them to portable and airborne instrumentation.

Standard pin layouts give them greater flexibility as plug-in devices for simple installation or replacement. The rugged construction combined with Taber's reputation for quality assures high reliability and long life performance.



ALDEN PRODUCTS COMPANY

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"Servicing the electronics industry for over 30 years:

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... with dependable, pre-engineered components to mount, house, fasten, connect, and monitor your electronic circuitry ...

IMAGINATION

... with advanced designs and techniques that have continually set the pace for the industry ...

SERVICE

... with manufacturing flexibility to quickly produce small or large quantities; ... individual service for fast processing of standard off-the-shelf items; ... and a technically trained customer's department for accurate, courteous information including facts and figures.

This **Quick Order Guide** contains small quantity prices of some of the most frequently ordered items. Please consult the Alden Handbook for a complete catalogue listing.

FROM ALDEN: off-the-shelf electronic building blocks. Now, you can lay out and package a unit or complete system with standard "off-the-shelf" Alden Electronic Packaging components for slide-in, modular construction.

Alden slide-in components simplify engineering, cut layout time, and speed production. These basic building blocks help you move faster from idea right on through to completed equipment, with maximum flexibility, reliability and serviceability.

This quick order guide contains some of the most frequently ordered items. Please consult your Alden Handbook for a complete catalog listing.

NOTE: Contact our Customers' Department for volume prices. Minimum order: \$5.00. \$15.00 injection molded parts such as hi-voltage disconnects and tube caps as found in Alden Handbook. FOB Brockton, Mass.

All orders subject to acceptance by Alden Products Company in accordance with Alden Standard Component Proposal of 8/15/49 — Revised 11/23/55.

All prices and specifications subject to change without notice.



BUILDING BLOCK COMPONENTS
TO MOUNT, HOUSE, FASTEN,
CONNECT & MONITOR YOUR
ELECTRONIC/ELECTRICAL CIRCUITRY

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